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Comment

## ***Interactive comment on “Determination of plutonium isotopes in marine sediments off the Fukushima coast following the Fukushima Dai-ichi Nuclear Power Plant accident” by W. T. Bu et al.***

### **Anonymous Referee #2**

Received and published: 11 March 2013

#### General comments:

In this report the authors measured Pu concentration in sediments before and after the FDNPP accident and concluded that the FDNPP accident did not cause detectable Pu contamination to the studied area. It is worthwhile to publish the data taken before the accident in the area where contamination would occur if Pu is discharged from the plant or through rivers from contaminated area in the future. And also it is important to investigate the fate of Fukushima-derived Pu, that was detected in the soil on land (Zheng et al., 2012a), in the ocean. However, the manuscript needs revision. The authors, especially Zheng and Yamada have been contributing to expansion of the knowledge base

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in marine geochemistry of Pu. Especially, the behavior of Pu in the coastal regions has been well documented in their series of papers. In addition, Zheng et al (2012b) already reached the conclusion that the sediments in the waters off Fukushima Prefecture have no detectable Pu from the accident. The sampling area in this manuscript is almost same as that in the previous paper. It would be better to place more emphasis on difference in the manuscript from the previous paper. And then the title, which is ambiguous, should be changed accordingly.

No specific comments.

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Interactive comment on Biogeosciences Discuss., 10, 643, 2013.

**BGD**

10, C266–C267, 2013

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